



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| (51) International Patent Classification ⁶ : C12N 15/29, 15/82, 15/11, 5/10, C07K 14/415, A01H 5/00, 5/10 | | A1 | (11) International Publication Number: WO 99/49046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | (43) International Publication Date: 30 September 1999 (30.09.99) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (21) International Application Number: PCT/GB99/00905 (22) International Filing Date: 22 March 1999 (22.03.99) (30) Priority Data: 9806113.8 20 March 1998 (20.03.98) GB (71) Applicant (for all designated States except US): BIOGEMMA UK LIMITED [GB/GB]; 200 Science Park, Milton Road, Cambridge CB4 0GZ (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): WYATT, Paul [GB/GB]; Biogemma UK Limited, 200 Science Park, Milton Road, Cambridge CB4 0GZ (GB). ROBERTS, Jeremy, Alan [GB/GB]; University of Nottingham, Division of Plant Science, School of Biological Sciences, Sutton Bonington Campus, Loughborough, Leicestershire LE12 5RD (GB). WHITELOW, Catherine [GB/GB]; University of Nottingham, Division of Plant Science, School Of Biological Sciences, Sutton Bonington Campus, Loughborough, Leicestershire LE12 5RD (GB). (74) Agents: CORNISH, Kristina, Victoria, Joy et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB). | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (54) Title: SIGNAL TRANSDUCTION PROTEIN INVOLVED IN PLANT DEHISCENCE <p style="text-align: center;">Expression analysis of DZ2 in various plant organs using Northern</p> <table border="1"> <thead> <tr> <th></th> <th colspan="5">DZ (DAA)</th> <th colspan="5">NDZ (DAA)</th> <th colspan="5">AZ NZ F L R S</th> </tr> <tr> <th></th> <th>20</th><th>30</th><th>40</th><th>50</th><th>60</th> <th>20</th><th>30</th><th>40</th><th>50</th><th>60</th> <th>AZ</th><th>NZ</th><th>F</th><th>L</th><th>R</th><th>S</th> </tr> </thead> <tbody> <tr> <td>606bp</td> <td colspan="16"> </td> </tr> <tr> <td>rRNA</td> <td colspan="16"> </td> </tr> </tbody> </table> <p> DZ = Pod dehiscence zone (20-60 DAA) F = Flower NDZ = Pod non-zone (20-60DAA) L = Leaf AZ = Leaf abscission zone R = Root NZ = Non-zone (stem) S = Seed </p> | | | | | DZ (DAA) | | | | | NDZ (DAA) | | | | | AZ NZ F L R S | | | | | | 20 | 30 | 40 | 50 | 60 | 20 | 30 | 40 | 50 | 60 | AZ | NZ | F | L | R | S | 606bp | | | | | | | | | | | | | | | | | rRNA | | | | | | | | | | | | | | | | |
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| (57) Abstract This invention relates to novel plant nucleic acid sequences and proteins. The sequences and proteins are useful in the control of plant dehiscence and in the production of male sterile plants. According to a first aspect of the invention there is provided nucleic acid optionally encoding a signal transduction protein involved in the process of dehiscence. Such a sequence or signal transduction protein has never previously been described in plant dehiscence. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |